

Appendix table 5-44.

**Distribution of U.S. scientific and technical articles, by sector and field: 1988, 1994, and 1999**  
(Percentages)

Year	Number of articles	Total S&E	Physics	Chemistry	Earth and space	Mathematics	Clinical medicine	Biomedical research	Biology	Engineering and technology	Psychology	Social sciences	Health and professional
<b>All U.S. sectors</b>													
1988 .....	175,837	100.0	10.3	7.6	4.6	2.3	31.1	15.5	7.5	6.5	3.9	4.7	6.0
1994 .....	178,425	100.0	11.0	7.5	5.4	1.8	31.0	16.6	6.8	6.7	3.3	4.3	5.6
1999 .....	163,526	100.0	10.4	7.6	6.1	1.8	32.2	17.0	6.1	5.8	3.4	4.2	5.3
<b>Academic</b>													
1988 .....	126,169	100.0	9.1	7.6	4.1	2.8	30.0	16.2	8.0	5.2	4.8	5.5	6.6
1994 .....	129,104	100.0	10.5	7.6	4.8	2.3	29.5	17.3	7.0	5.7	4.1	5.0	6.2
1999 .....	120,149	100.0	10.0	7.9	5.4	2.3	30.2	17.8	6.3	5.0	4.1	5.0	6.0
<b>Industry</b>													
1988 .....	14,810	100.0	21.8	15.5	3.8	1.1	16.4	10.0	2.7	20.0	1.0	1.8	5.9
1994 .....	14,598	100.0	16.6	14.4	4.8	0.7	22.2	12.2	3.5	19.3	0.6	1.2	4.6
1999 .....	11,431	100.0	14.5	12.6	5.1	0.8	26.6	13.3	2.9	17.9	0.8	1.3	4.1
<b>Nonprofit</b>													
1988 .....	12,278	100.0	2.0	1.7	3.6	0.4	60.0	16.7	3.4	1.8	2.2	4.0	4.3
1994 .....	12,801	100.0	2.0	2.2	3.6	0.3	60.0	17.9	3.1	1.3	1.9	4.0	3.8
1999 .....	12,597	100.0	1.5	2.1	5.2	0.3	61.2	17.1	3.2	0.9	1.7	3.2	3.6
<b>Federal Government</b>													
1988 .....	14,287	100.0	6.9	5.3	8.4	0.6	36.7	17.1	13.0	5.2	1.4	3.0	2.6
1994 .....	13,913	100.0	8.6	5.4	9.7	0.4	33.2	17.5	13.2	5.5	1.2	3.0	2.3
1999 .....	11,582	100.0	8.8	4.5	11.3	0.5	33.9	17.4	12.4	5.6	1.2	2.3	2.0
<b>FFRDCs</b>													
1988 .....	4,943	100.0	44.8	10.3	11.4	1.2	4.7	8.4	2.1	15.4	0.1	1.1	0.6
1994 .....	4,885	100.0	44.4	9.1	13.5	0.9	5.0	8.4	1.6	15.3	0.2	1.1	0.4
1999 .....	4,631	100.0	44.8	12.9	15.4	0.7	4.1	8.2	1.0	12.4	0.0	0.3	0.2
<b>Other government</b>													
1988 .....	2,080	100.0	0.3	1.8	5.8	0.1	50.6	12.7	10.6	1.6	4.4	2.4	9.7
1994 .....	1,816	100.0	0.1	2.5	5.9	0.2	47.6	11.9	11.7	1.6	5.2	3.2	10.1
1999 .....	1,480	100.0	0.3	1.7	8.1	0.2	49.5	12.5	12.2	1.1	3.6	2.5	8.3
<b>Unknown sector</b>													
1988 .....	1,270	100.0	2.9	2.5	3.8	0.7	36.2	5.6	4.4	7.2	12.4	7.7	16.7
1994 .....	1,307	100.0	3.1	1.8	4.6	0.7	40.0	6.7	5.9	7.6	9.1	5.4	15.3
1999 .....	1,657	100.0	4.6	3.5	5.0	0.7	44.2	8.0	5.8	6.7	4.3	5.0	12.3

FFRDCs = Federally Funded Research and Development Centers

NOTES: Article counts are based on fractional assignments; for example, an article with two authors from different sectors is counted as one-half of an article for each sector. Multi-authored articles with foreign authors are counted similarly. Articles are assigned to fields based on journal field classifications developed by CHI Research, Inc., based on a 1985 set of journals classified and covered by the Institute for Scientific Information's Science and Social Science Citation Indexes. Sector article counts and field shares may not add to total because of rounding.

SOURCES: Institute for Scientific Information, Science Citation Index and Social Science Citation Index; CHI Research, Inc., Science Indicators database; and National Science Foundation, Division of Science Resources Statistics (NSF/SRS), special tabulations.

See figure 5-38 in Volume 1.

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